MAY 2 2 1997

OSMIC WORKSHOP #6, 97.05.22.

Tel
Ken
Shu
Ke.

Ken'ichi's new diagram 1
Ken'ich's input cartoon 2
Answer to That: you want the pointers, not the text! 3

'Document' does have meaning 4 SHOULD ALL EDITS BE POOLED? 5
User's version name table 7

Design of Lazy Editor 8

KEI'S DESIGN SUMMARY 17
WHAT SHALL WE DO AND WHEN? 18,
(Map of Bay Area) 19,,

LG-SCALE HYPERTIME MAPS 6

MODIFICATION # OF LINKS (improvement of 88.1)

TED'S MODEL: LINK STARTS AT PRIM. ELEMENT (DOCUMENT DOES #(50)

EDITING PROMOTES AN OBJECT to ~~Editable Object~~ (~~accessible list~~ modifiable list)

ANDREW'S SUGGESTION: OLD LINK TRANSCLUDES INTO NEW

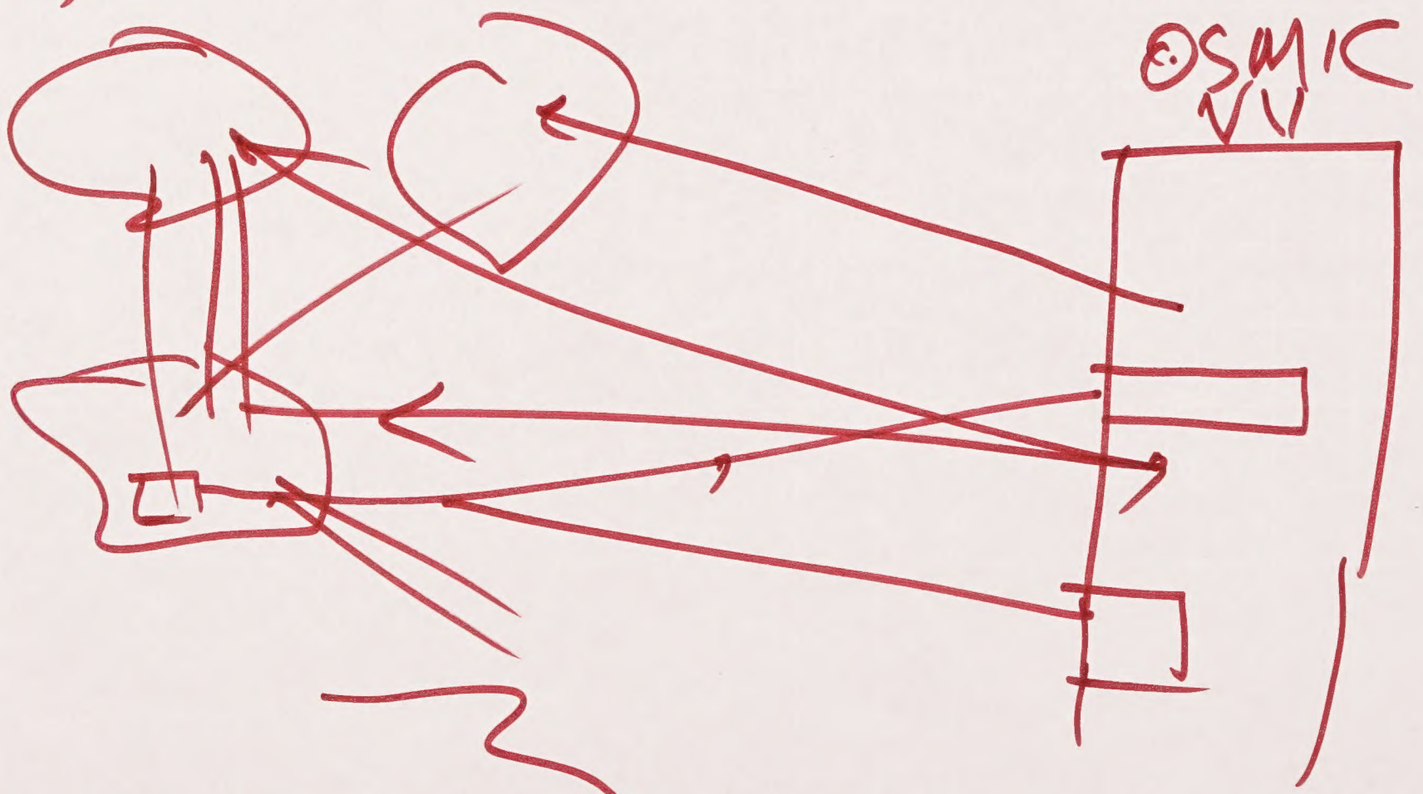
T. BUT WE CAN'T JUST TRANSCLUDE A LINK because that doesn't show that it has been edited.

OSMIC 1st point

STRUCMAP

- bidirectional structure
- versionable

Conceptually: floating objects



STRUCTURE: PIECE
mier., reparrak, overlapping
chunkk

OSMIC

MOO was Pavel Curtis' MUD, Object-Oriented
Extensible, efficient (not slow, interpreted

Jon Epstein ~~moved~~
attached † to Port 80 = WWW

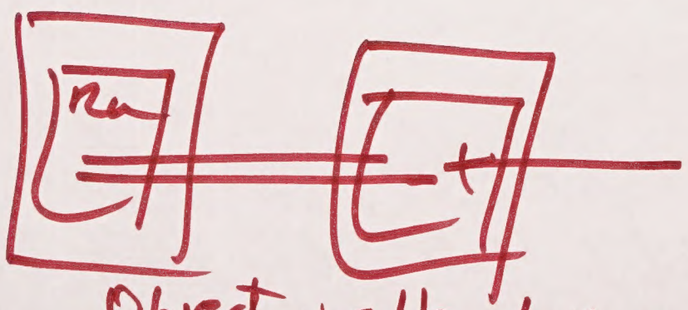
EXTENDED ~~MUD~~ data base to MM

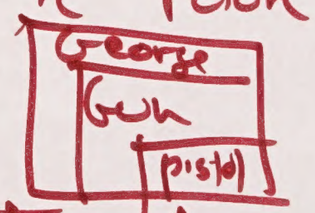
'Added Transclusion'

EXTENDED
CONTAINMENT RELATION
of MUD

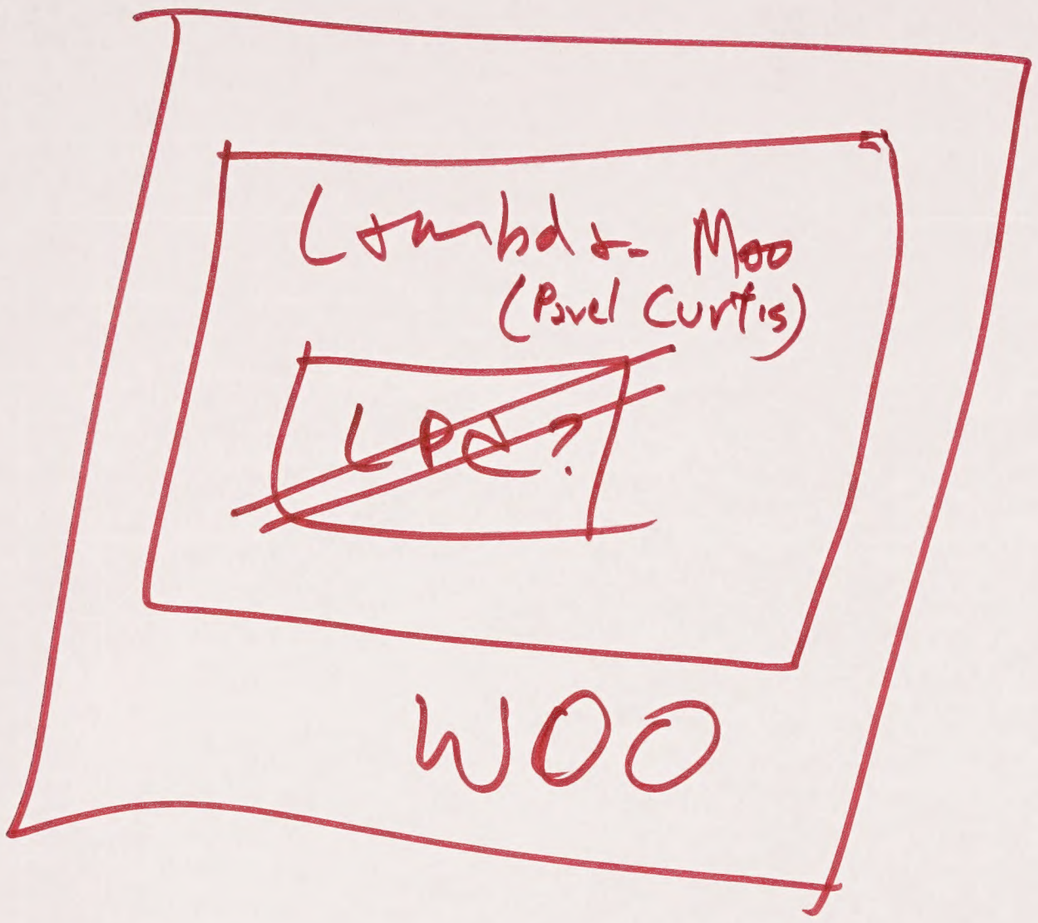
Hier. containment built into file sys

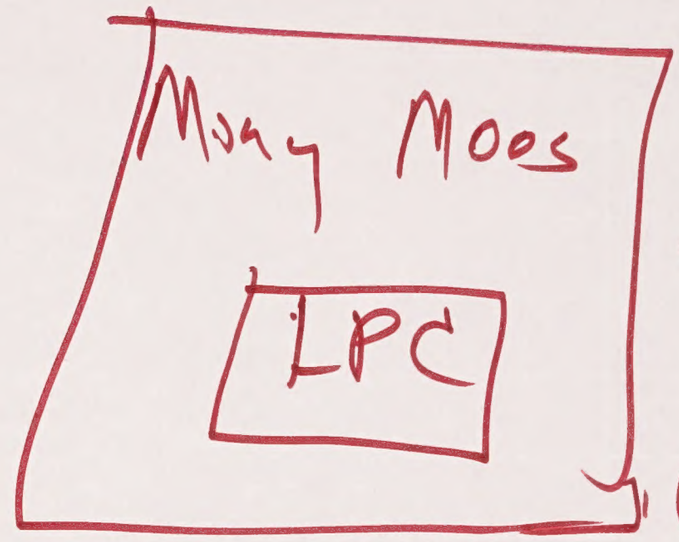
(Everyone in room can see:





Object visible here; THAT EXTEND MOO to NETWORK!





Spinner
~~Roxen~~
Web
Server
(U. Linköping)
+
Roxen
(commercial
version)

~~THEIR OWN EXTENSIONS~~
counter
=
'file stats'

W00 moved

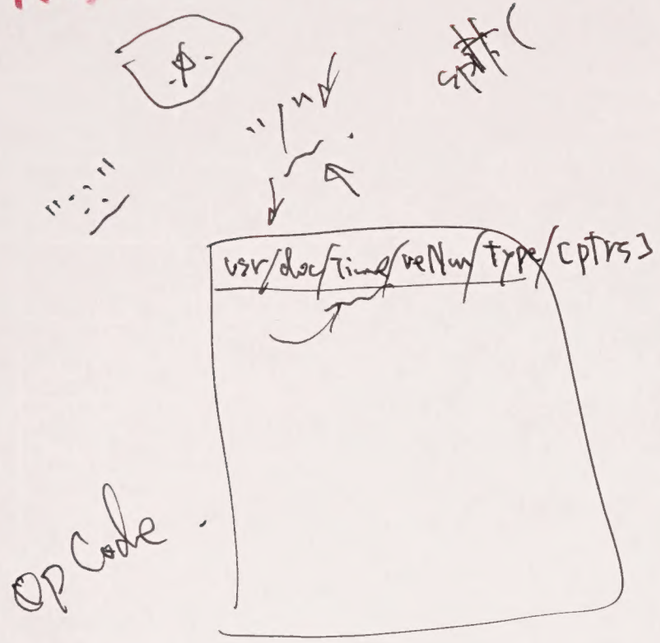
CLOSURE FOR THIS TERM.

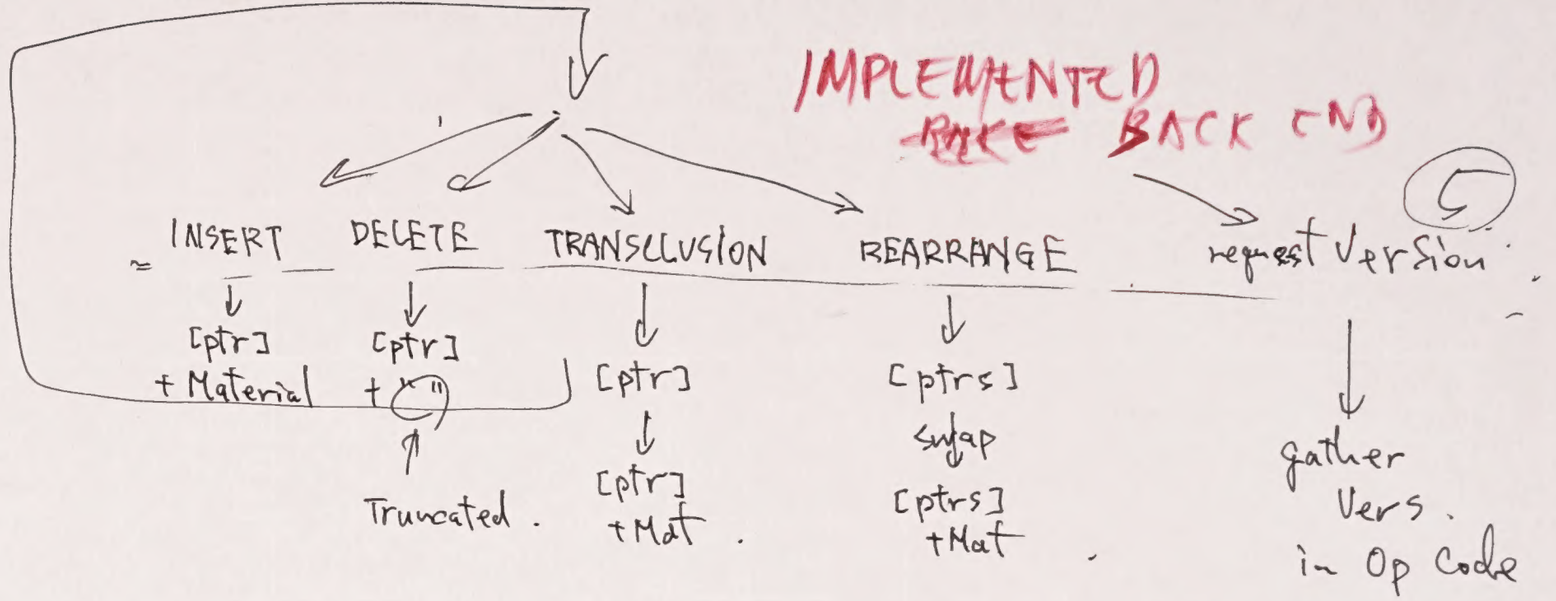
SIMPLE PACKAGING OF EXISTING CODE, source on net

TED'S WRITEUP

osmic.1 server.

ADDRESS LOOKUP





% telnet host port .

string? :

primedia returns Material :

ptrs : [Ø+20]

IMPLEMENTED
PROTOCOL

branch version ID

2.a.2

userName? :

docName? ;

Time : 15:30:15 - Ø6 - 29 - 97

FOR PROTOCOL TRAFFIC
Maybe some wrapper

VV 37=2265

new op

VV 37=21

THE FOLLOWING CONSIST OF DELIVERY OF TEXT BLOCK

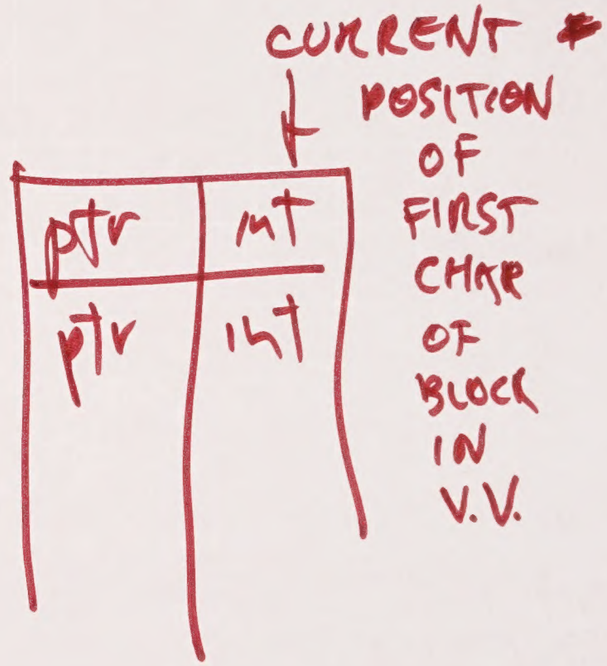
start in dst		
765	ptr	text

TO MATCH VV BETWEEN CLIENT & SERVER.

~~Perhaps~~

Poss. b/e method

OR



H'wtre

EVERY DOCUMENT HAS ATTRIBUTES / METADATA:

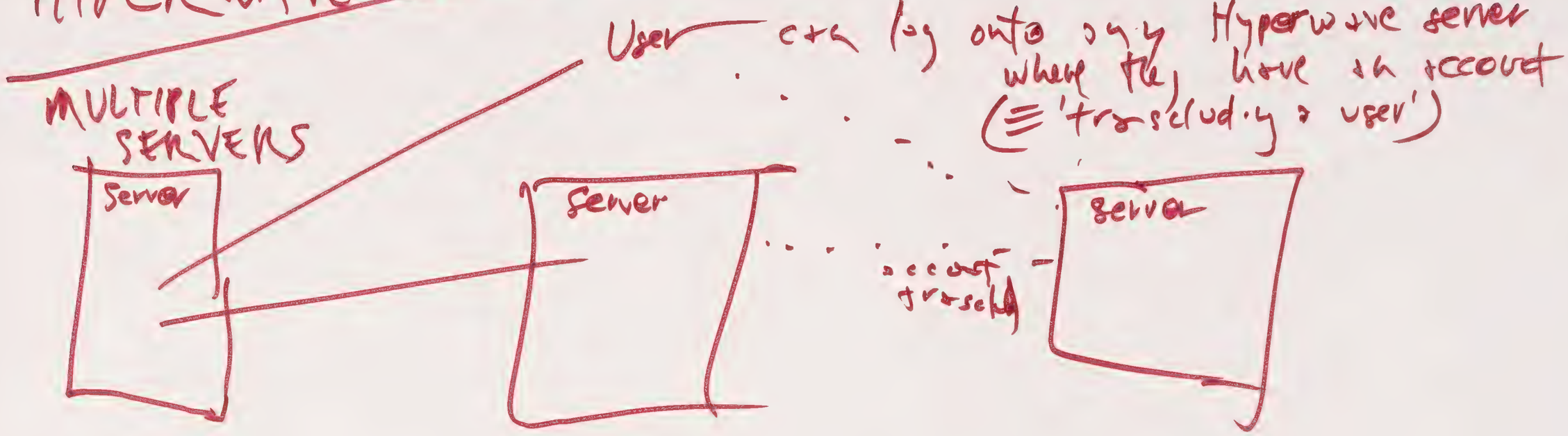
Author = Owner

'DocAuthor' = real author
'Athor' = Publisher
| TERRIBLE misuse of word

Docdate = ORIG. PUB. DATE
~~BEFORE~~ HYPERWAVE
'Last modified date'

Every author

HYPERWAVE (Prof. Dr. Dr. Hermann Maurer, Tech. U. of Graz)



HYPERWAVE OBJECT BASE

~~HYPER~~

FROM XANADU:
Full Docuverse managed
TRANSCLUSION
PUBLISHING SYSTEM

DOCUMENT

USER

MICROCOSM vs HYPERWAVE vs WOO

Microcosm doesn't store documents.

Hyperwave MANAGES ENTIRE DOCUVERSE.

HYPERWAVE

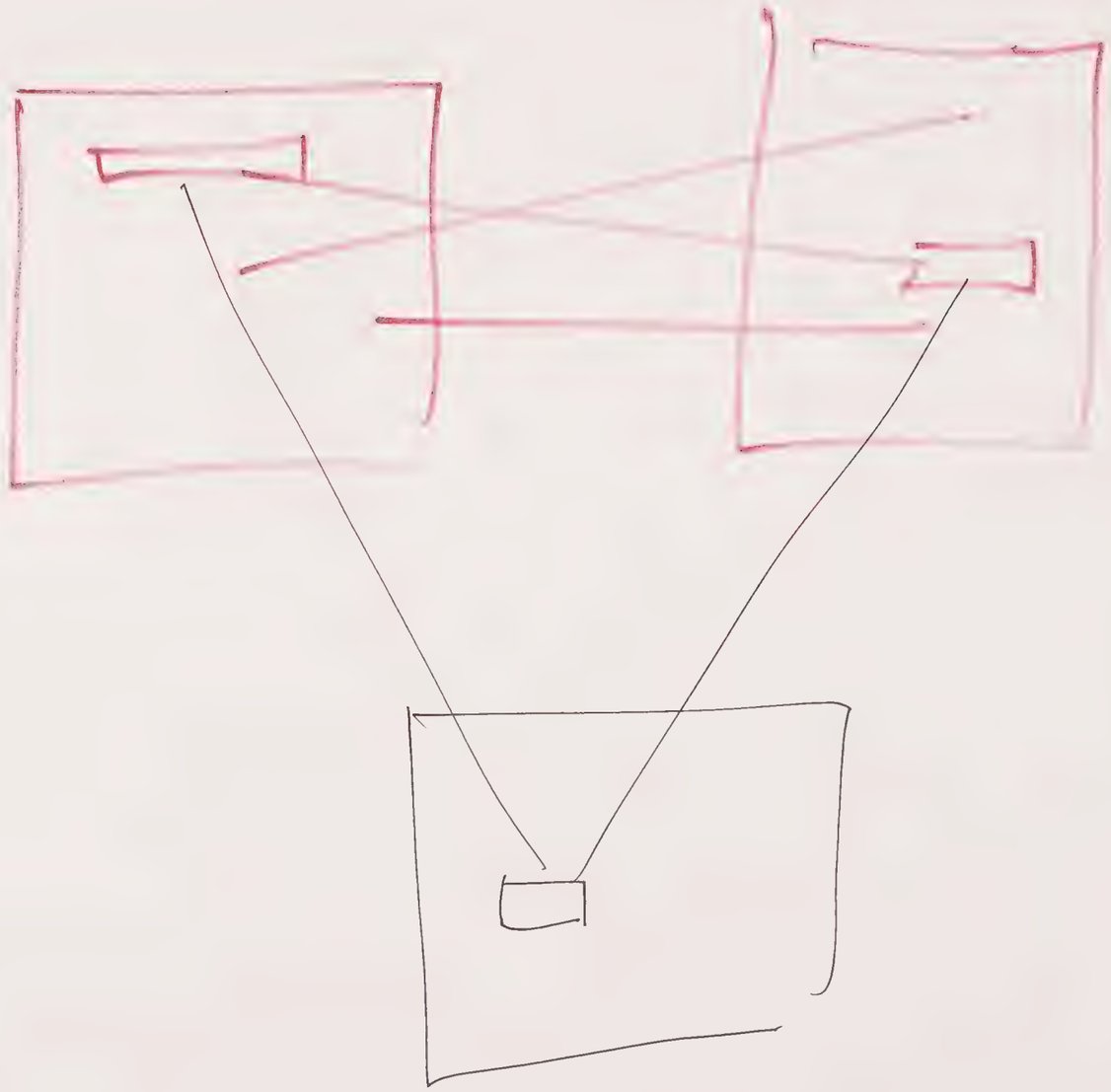
OVERALL OBJECT BASE

DOCUMENT BASE

MICROCOSM LINKS CAN BE SPECIFIED AS

~~length~~
string to match
offset in document

24 other ways.

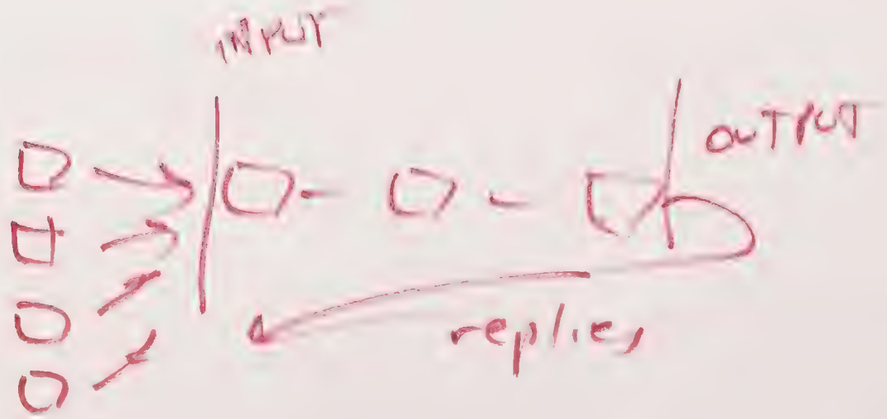


MICROCOSM STRUCTURE

FILTER IS AN ARB. PROGRAM

WHICH CAN

- stop a message
- generate a message



MICROCOSM (U. of Southampton, Wendy Hall)

LINKS ARE APPLICATIVE ENTITIES
which are IN A LINK BASE.
They are BIFOLLOWABLE. (typed??)

'FLINK' (floating link)
with wild card

So you select a region, select see the links it connects to.

LINKS

# or address	Type	LEFT LIST	RIGHT LIST

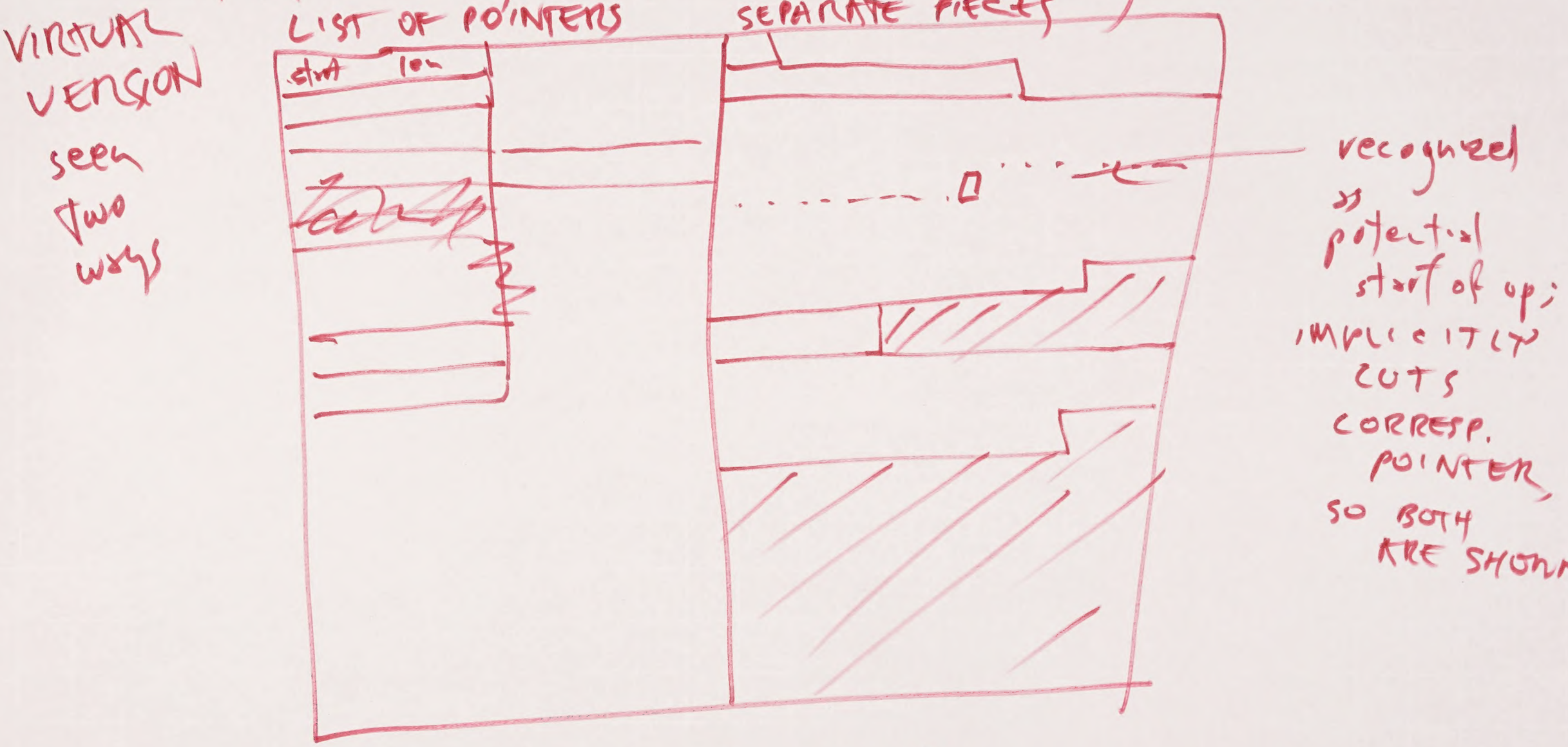
XANADU MODEL : ALL LINKS APPLICATIVE
~~#~~ ALL LINKS ADDRESSABLE INDIVIDUALLY

EVILS OF WORLD } BROWN MODEL : 'WEB' (link is tangled into a set)
'ANCHOR' (link-end is a separate element)

OP CODE — INSERT, DELETE, REARRANGE, TRANSCLUDE

- USER NAME (extensible for net address)
- DOC NAME
- TIME
  - VERSION NO
- TYPE OF OP
- LIST OF PTRS
  - /primedia stream name
    - start / length

Model of 'lazy front end' — interest) virtues

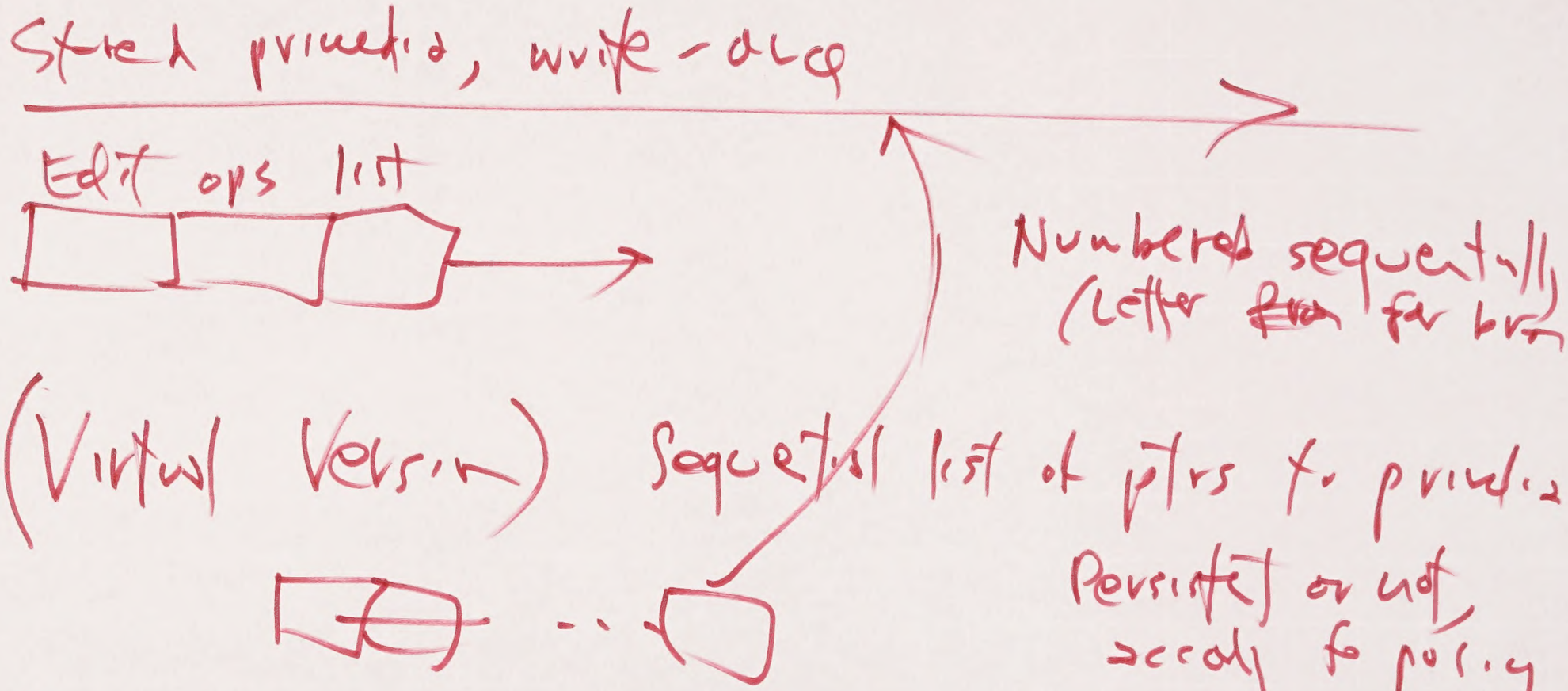

VIRTUAL VERSION seen two ways
LIST OF POINTERS
SEPARATE PIECES
recognized as potential start of op; IMPLICITLY CUTS CORRESP. POINTER, SO BOTH ARE SHOWN

EXECUTING THE OP
delivers the list of ops to back e

DEFINE PROTOCOL WITH:
Most sense, best impl. & generality.

Front End / Back End Model

BASIC STRUCTURE

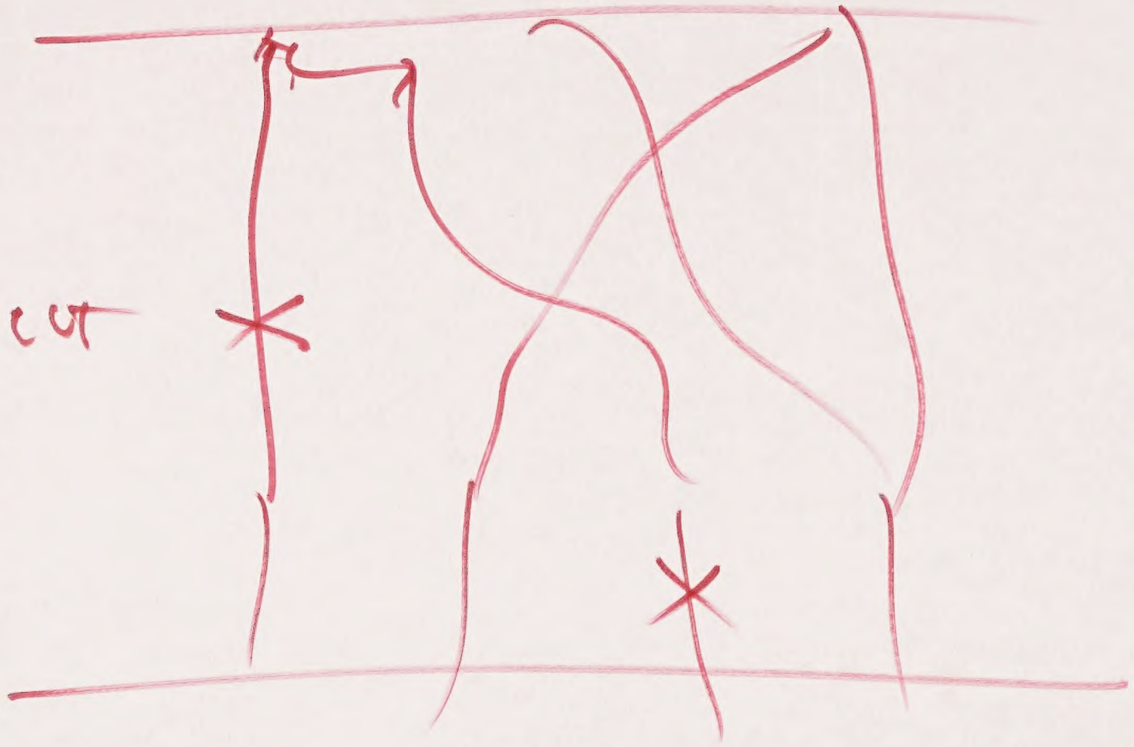


DOCUMENT & VERSION SPECIFICATION

Doc is a <u>tree</u> & a bunch of versions are specified by their last op

NICKNAME: Version names may also be assigned

EITHER to a particular version, node, or leaf or a "branch"



Andrew : Unix
death of file
with its last
hard link
(= refcount)